

## CLAIMS:

1. A video-information encoding apparatus for encoding a video signal, comprising:  
first means for applying a predetermined transformation to the video signal to generate a transformed video signal;  
second means for applying an arithmetic coding to the transformed video signal; and  
means for counting a number of pieces of input data and output data in/from said second means;  
in a case in which the counted number of pieces of the input data or the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be encoded and an encoding process differing from that applied by said first means is applied to the video signal.
2. The video-information encoding apparatus according to Claim 1, wherein said encoding process differing from that applied by said first means applies a different encoding parameter to the video signal in the first means.
3. The video-information encoding apparatus according to Claim 1, wherein said encoding process differing from that applied by said first means is an uncompress process to the video signal in the first means.
4. The video-information encoding apparatus according to Claim 1, wherein said prescribed unit of encoding is a macroblock.
5. The video-information encoding apparatus according to Claim 1, wherein said prescribed unit of encoding is a slice.
6. A video-information encoding apparatus for encoding a video signal, comprising:  
first means for applying a predetermined transformation to the video signal to generate a transformed video signal;  
second means for applying an entropy coding to the transformed video signal; and  
means for counting a number of pieces of output data from said second means;

in a case in which the counted number of pieces of the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be encoded and the video-information encoding apparatus processes the video signal as an uncompressed data.

7. The video-information encoding apparatus according to Claim 6, wherein said prescribed unit of encoding is a macroblock.

8. A video-information decoding apparatus for decoding a compressed video signal, comprising:

first means for applying an arithmetic decoding to the compressed video signal to generate an arithmetic decoded signal;

second means for applying a predetermined transformation to the arithmetic decoded signal; and

means for counting a number of pieces of input data and output data in/from said first decoding means;

in a case in which the counted number of pieces of the input data or the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be decoded and performs a predefined error processing.

9. The video-information decoding apparatus according to Claim 8, wherein said prescribed unit of encoding is a macroblock.

10. A video-information encoding method for encoding a video signal, comprising:

first coding applying a predetermined transformation to the video signal to generate a transformed video signal;

second coding applying an arithmetic coding to the transformed video signal; and

counting a number of pieces of input data and output data in/from said second coding;

in a case in which the counted number of pieces of the input data or the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be encoded and an encoding process differing from said first coding is applied to the video signal.

11. A video-information encoding method for encoding a video signal, comprising:  
first coding applying a predetermined transformation to the video signal, to generate a transformed video signal;

second coding applying an entropy coding to the transformed video signal; and

counting a number of pieces of output data from said second coding means;

in a case in which the counted number of pieces of the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be encoded and the video-information encoding apparatus processes the video signal as an uncompressed data.

12. A video-information decoding method for decoding a compressed video signal, comprising:

first decoding applying an arithmetic decoding to the compressed video signal to generate an arithmetic decoded signal;

second decoding applying a predetermined transformation to the arithmetic decoded signal; and

counting a number of pieces of input data and output data in/from said first decoding;

in a case in which the counted number of pieces of the input data or the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be decoded and performs a predefined error processing.

13. A video-information encoding apparatus for encoding a video signal, comprising:  
a first coder for applying a predetermined transformation to the video signal to generate a transformed video signal;

a second coder for applying an arithmetic coding to the transformed video signal; and

a counter for counting a number of pieces of input data and output data in/from said second coder;

in a case in which the counted number of pieces of the input data or the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be encoded and an encoding process differing from that applied by said first coder is applied to the video signal.

14. The video-information encoding apparatus according to Claim 13, wherein said encoding process differing from that applied by said first coder applies a different encoding parameter to the video signal in the first coder.

15. The video-information encoding apparatus according to Claim 13, wherein said encoding process differing from that applied by said first coder is an uncompress process to the video signal in the first coder.

16. The video-information encoding apparatus according to Claim 13, wherein said prescribed unit of encoding is a macroblock.

17. The video-information encoding apparatus according to Claim 13, wherein said prescribed unit of encoding is a slice.

18. A video-information encoding apparatus for encoding a video signal, comprising:  
a first coder for applying a predetermined transformation to the video signal to generate a transformed video signal;  
a second coder for applying an entropy coding to the transformed video signal; and  
a counter for counting a number of pieces of output data from said second coder;  
in a case in which the counted number of pieces of the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be encoded and the video-information encoding apparatus processes the video signal as an uncompressed data.

19. The video-information encoding apparatus according to Claim 18, wherein said prescribed unit of encoding is a macroblock.

20. A video-information decoding apparatus for decoding a compressed video signal, comprising:

a first decoder for applying an arithmetic decoding to the compressed video signal to generate an arithmetic decoded signal;

a second decoder for applying a predetermined transformation to the arithmetic decoded signal; and

a counter for counting a number of pieces of input data and output data in/from said first decoder;

in a case in which the counted number of pieces of the input data or the output data exceeds a preset threshold value in a prescribed unit of encoding, the data is not taken as data to be decoded and performs a predefined error processing.

21. The video-information decoding apparatus according to Claim 20, wherein said prescribed unit of encoding is a macroblock.